

# Cytometer Performance Report

**Cytometer:** FACSCantoII  
**Cytometer Name:** FACSCantoII  
**Serial Number:** V33896201821  
**Input Device:** Carousel  
**Tube Loaded Manually:** Yes  
**Cytometer Configuration:** Euroflow 3-laser, 8-color (4-2-2)

**User:** Administrator  
**Institution:** N/A  
**Software:** BD FACSDiva 6.1.3  
**Date:** 01/29/2018 11:26 AM  
**Cytometer Baseline:** 10/18/2017 09:13 AM  
**P/F:** Pass

## Setup Beads

**Bead Product:** CST Setup Beads, **Part #:** 910723  
**Lot ID:** 25720, **Expiration Date:** 06/30/2017 (Expired)  
**Bead Lot Information:** Available

## Detector Settings

| Laser  | Detector | Parameter   | Target Value | Actual Target Value | % Difference Target Value | Bright Bead % Robust CV | Mid Bead Median Channel | Mid Bead % Robust CV |
|--------|----------|-------------|--------------|---------------------|---------------------------|-------------------------|-------------------------|----------------------|
| Blue   | FSC      | FSC         | 125000       | 125658              | 0                         | 2.13                    | 125485                  | 2.05                 |
| Blue   | F        | SSC         | 125000       | 122387              | -3                        | 3.47                    | 122691                  | 3.30                 |
| Blue   | E        | FITC        | 23615        | 22695               | -4                        | 2.97                    | 1013                    | 10.58                |
| Blue   | D        | PE          | 26739        | 26075               | -3                        | 2.56                    | 936                     | 10.39                |
| Blue   | B        | PerCP-Cy5-5 | 48339        | 47023               | -3                        | 3.86                    | 1347                    | 17.54                |
| Blue   | A        | PE-Cy7      | 45021        | 44671               | -1                        | 5.57                    | 688                     | 37.50                |
| Red    | C        | APC         | 53064        | 52142               | -2                        | 2.90                    | 2983                    | 9.89                 |
| Red    | A        | APC-Cy7     | 57175        | 56417               | -2                        | 2.87                    | 1168                    | 11.67                |
| Violet | B        | V450        | 14728        | 14092               | -5                        | 4.86                    | 674                     | 9.63                 |
| Violet | A        | V500        | 58621        | 56666               | -4                        | 4.68                    | 2511                    | 7.09                 |

## Detector Settings (Continued)

| Laser  | Detector | Parameter   | Dim Bead Median Channel | Dim Bead % Robust CV | PMTV | Δ PMTV | Qr     | Br   | P/F  |
|--------|----------|-------------|-------------------------|----------------------|------|--------|--------|------|------|
| Blue   | FSC      | FSC         | 19583                   | 3.04                 | 611  | -3     | N/A    | N/A  | Pass |
| Blue   | F        | SSC         | 60558                   | 1.85                 | 555  | 9      | N/A    | N/A  | Pass |
| Blue   | E        | FITC        | 112                     | 38.83                | 547  | -1     | 0.0197 | 91   | Pass |
| Blue   | D        | PE          | 203                     | 30.24                | 539  | 3      | 0.1426 | 220  | Pass |
| Blue   | B        | PerCP-Cy5-5 | 211                     | 46.92                | 638  | 3      | 0.0095 | 114  | Pass |
| Blue   | A        | PE-Cy7      | 72                      | 129.04               | 698  | 5      | 0.0107 | 16   | Pass |
| Red    | C        | APC         | 341                     | 29.35                | 603  | 6      | 0.0186 | 67   | Pass |
| Red    | A        | APC-Cy7     | 128                     | 41.78                | 586  | 6      | 0.0050 | 1492 | Pass |
| Violet | B        | V450        | 81                      | 44.82                | 463  | -7     | 0.0452 | 2214 | Pass |
| Violet | A        | V500        | 183                     | 24.58                | 490  | -7     | 0.0139 | 763  | Pass |

## Specifications

**PMTV Delta from baseline:** 50 (BD)  
**Violet Laser Primary Channel Bright Bead %Robust CV:** 6.00 (Recommended)  
**Blue Laser Primary Channel Bright Bead %Robust CV:** 6.00 (Recommended)  
**Red Laser Primary Channel Bright Bead %Robust CV:** 6.00 (Recommended)

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## Laser Settings

| Laser  | Power (mW) | Power Spec. (mW) | Current (mA) | Current Spec. (mA) | Delay (Trigger on FSC) | Delay (Trigger on Fluorescence) | Area Scaling Factor |
|--------|------------|------------------|--------------|--------------------|------------------------|---------------------------------|---------------------|
| Violet | 59.55      | 47.98 - 71.98    | N/A          | N/A                | -31.82                 | -31.13                          | 0.95                |
| Blue   | 20.34      | 16.27 - 24.41    | 1.25         | 0.99 - 1.49        | 0.00                   | 0.00                            | 1.34                |
| Red    | 15.96      | 14.40 - 21.60    | N/A          | N/A                | 30.89                  | 31.48                           | 1.16                |

Window Extension: 7.00  
FSC Area Scaling Factor: 0.87

## Threshold

Threshold (FSC): 14155

## Fluidics

FACSFlow Pressure: 3.90  
Spec.: 3.80 - 4.00  
Sample Pressure: 3.70

Comments